



**International bio-medical imaging based R&D  
and support imaging CRO and ARO service.**

**LISIT, Co.,Ltd.**

*LifeSaving Imaging Technologies*



<http://www.lisit.jp/indexE.html>

**Shuji Yamamoto,PhD**  
**04.01,2013**

# About Us



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SHUJI YAMAMO, PhD

Personal site is

[http://sites.google.com/site/  
exelcraft/](http://sites.google.com/site/exelcraft/)

LISIT was established in  
April 1 2010.

**LISIT, Co.,Ltd**(*LifeSaving Imaging Technologies*) is a first company to fulfil the integration of medical image analysis service , R&D support of medical imaging and assessment of the drug efficacy as mainly technical aspect (radiological technology and medical physics) with first introducing as “Imaging ARO and CRO” support service.

## *Imaging ARO and CRO service*

LISIT have developed long-tailed imaging marker with rapid programing.

## *Software development of new imaging biomarker*

Zero footprint cloudPACS system is also very important to make speed up and safety for the data delivery around the world.



**Experienced in University Hospitals and Cancer related center for more than 15 years**

## **Executive Officer**



**Shuji Yamamoto, PhD**

### **Education • Graduation**

**Osaka University, Graduate School of Medicine**

**Faculty of Medicine,**

**Medical Physics, PhD, March 2003**

**< Resident Training of Medicine >**

.Research Resident: The 3rd. Term Comprehensive  
10-Year Strategy for Cancer Control (BioMedical  
Imaging Science :Ministry of Health,Japan)

.International Cancer Imaging Society Member (United Kingdom)

### **Career**

#### **Present:**

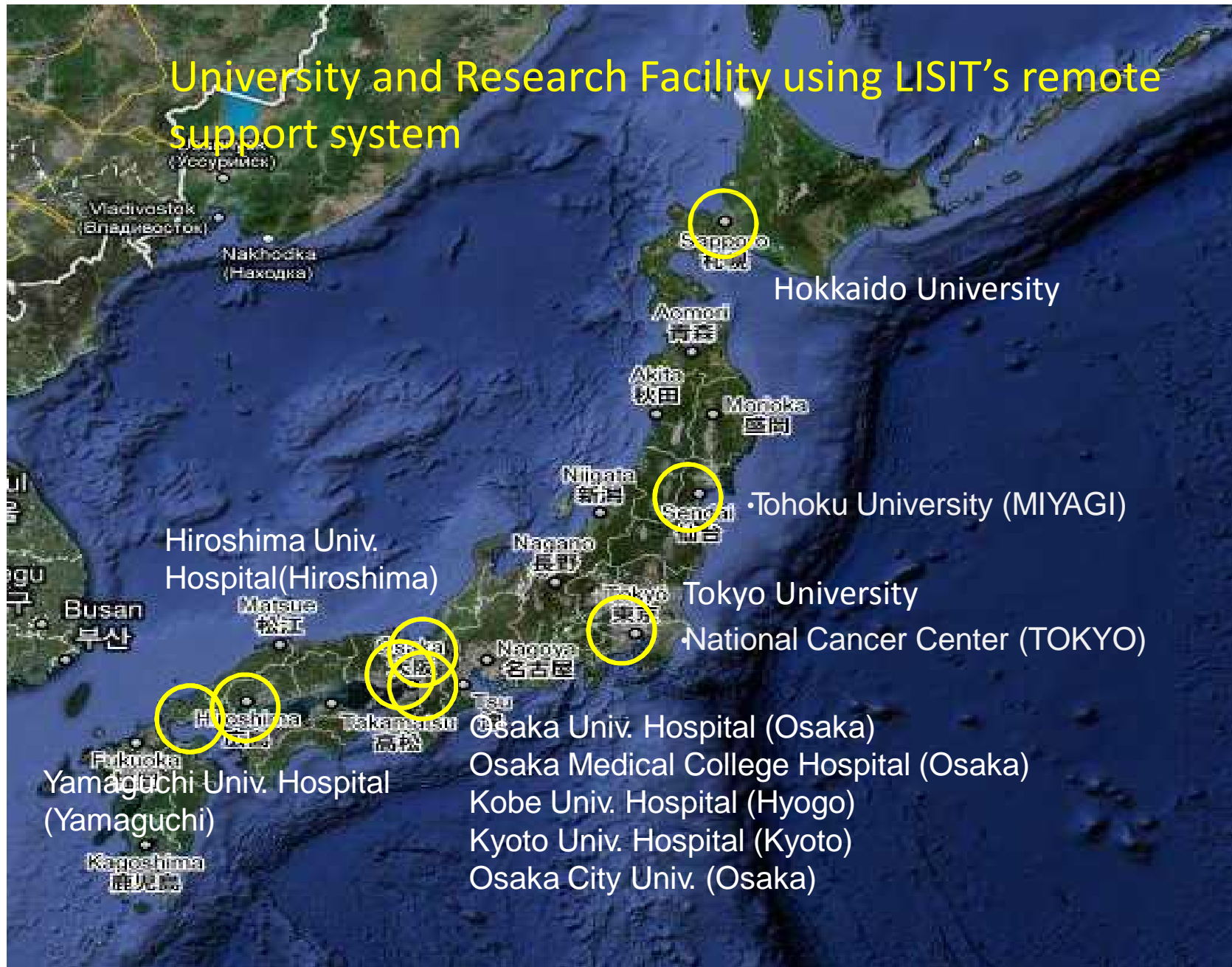
.LISIT Co.Ltd. CEO

.Tokyo Institute of Technology, The Education Academy of Computational Life Sciences (ACLS),  
Project Associate Professor.

.National Cancer Center, Research Center for Cancer Prevention and Screening. Visiting Researcher

.Osaka University Hospital, Department of Radiology, Medical Researcher

# University and Research Facility using LISIT's remote support system





# Business Opportunity

## Market Pains:

- Creating **bio-medical imaging marker** require professional knowledge and time consuming work.
- Statistics and **Big data management** after image processing is essential for clinical research and trials
- PACS system is expensive and only for department of Radiology. **Cloud-based vender neutral archive (VNA)** is keep low cost, efficiency and robust.
- Not enough standardization **QC for medical device, patient exposure dose** controlling in Japan.
- Not enough standardization to validate the measurement methods to assess **drug safety and efficacy** in Japan.

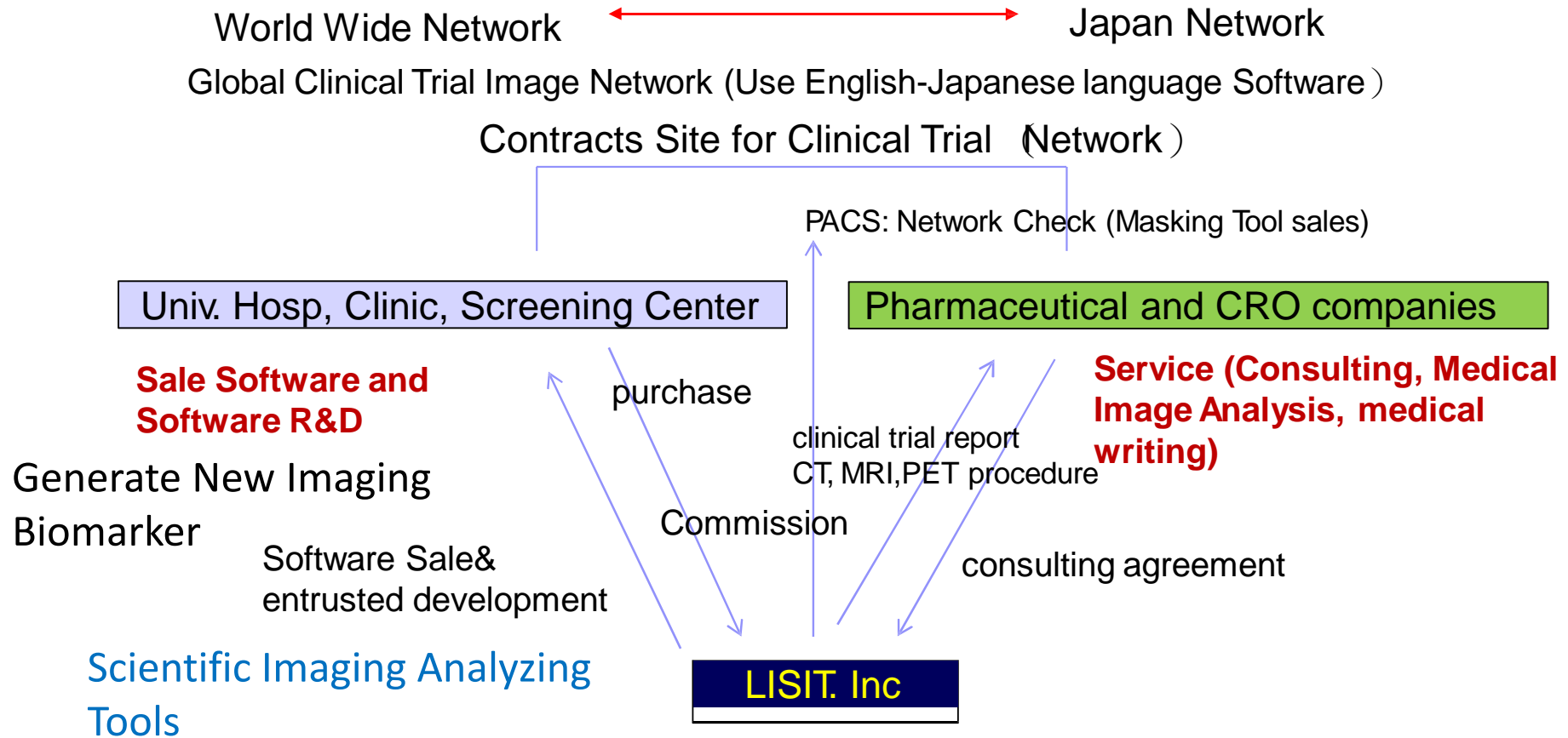
# LISIT's International Partners

- Mint Medical GmbH, Dossenheim / Heidelberg, Germany
- Image Information Systems, Rostock, Germany
- Object Research Systems, Montreal, Quebec
- imagilyts, Brussels, Belgium
- tWAN Biotech Company, Taichung, Taiwan

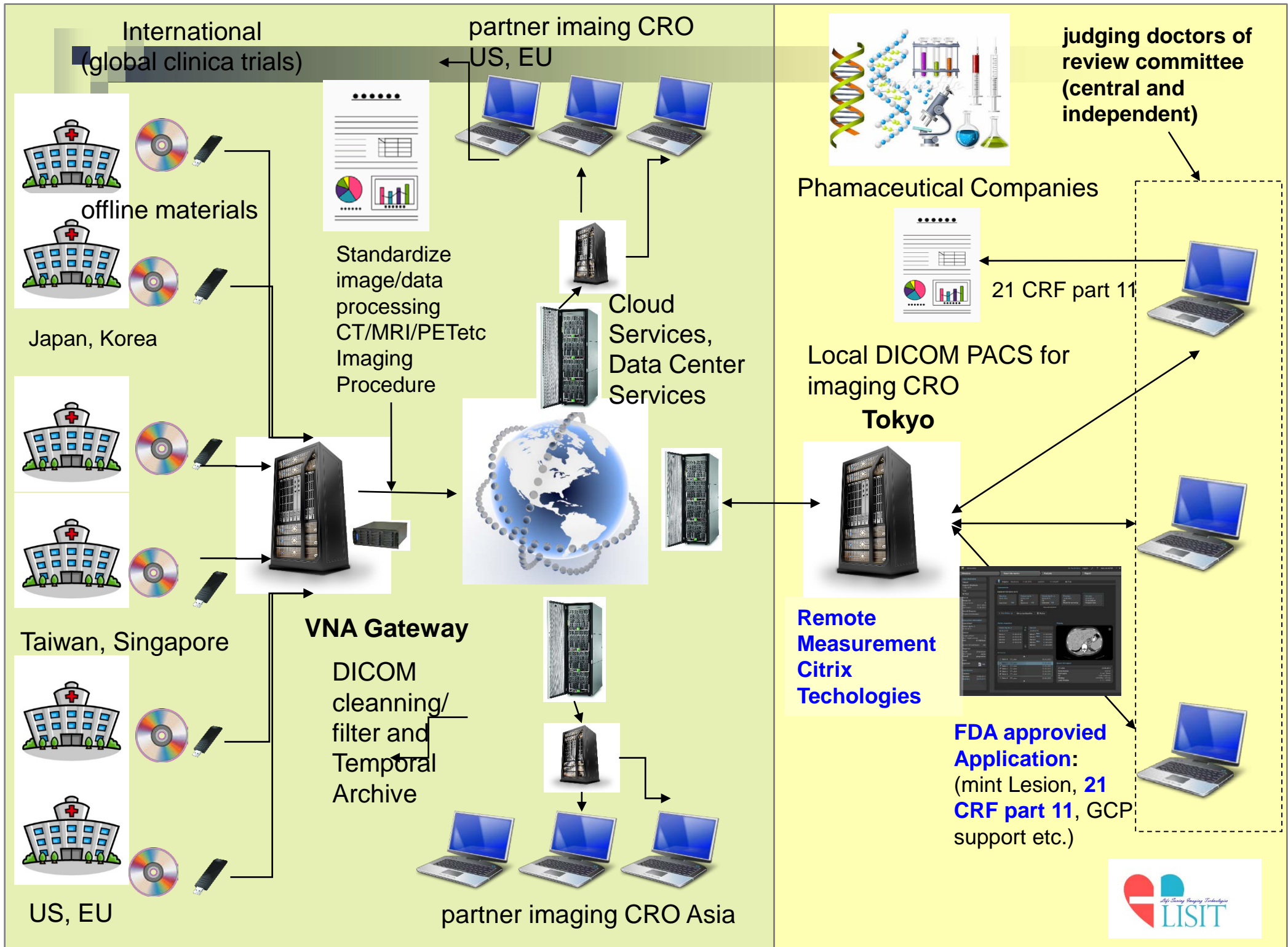


# Our Solution

## Zero footprint imaging cloud network



- Validated measurement using FDA approved workstation and tools
- Custom Development for Educational and Research Facilities
- Quality Control service to the CT, MRI, PET device, Images, Display regulated DICOM







# Value Proposition of LISIT

## Professionals for medical imaging

- Provide solutions for various problem of diagnostic, therapeutic imaging, research and educational medical image processing work.
- Thorough knowledge of multi-dimensional image processing and analysis.
  - Wide experienced operations of vender's 3D workstation.
  - Self-developed software for image analysis related to clinical trials.
- Provide medical imaging network & communication solution
  - Based on validated international “Masking tool: DICOM anonymous”
  - Developed image data communication system for clinical trials



## Value Proposition of LISIT (2)

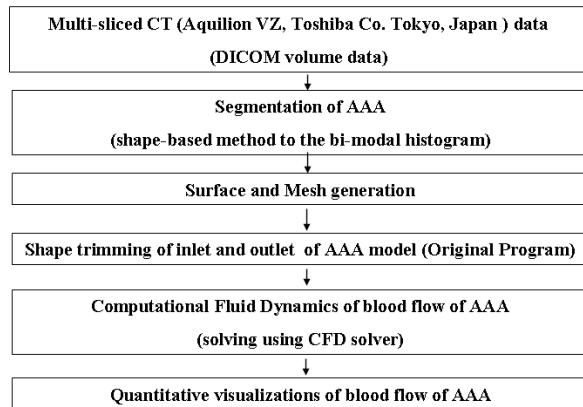
### Professionals for imaging solution in clinical trials

- Provide up-to-date diagnostic imaging methodology (academic base)
- Translate protocol (imaging exam related contents) to Japanese-English for global study
  - Optimize to fit Japanese situation in radiology department
- Consulting RECIST, Cheson, PERCIST, RANO, ir-RC, ir-RECIST1.1 etc measure using our developed software
- Analyze image data using various validated methods.  
plan and make CSV(computer system validation for ARO:  
Academic Research Organization)
- Provide the standardized validated reports based on Validated Large World Wide International Clinical Trials

# Consulting and Entrusted Analysis Service using Advanced Partner's Software

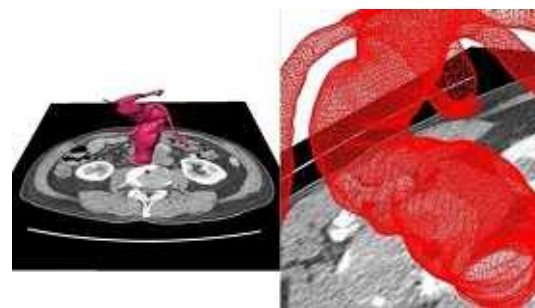
## Computational Flow Dynamics (Research and Academic work)

Flowchart of 3D modeling and CFD



Schematic diagram of the technique in blood flow visualizing and analysis

### Analysis Planning



Inlet : Velocity Prescribed



Model and Parameter Condition

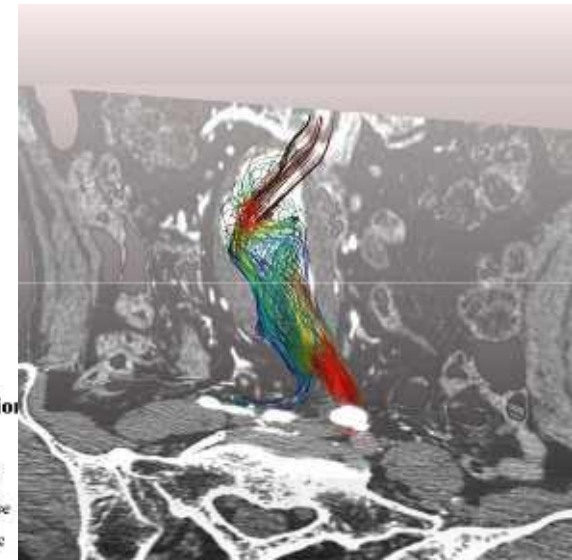
Condition  
 $\rho$  (Blood Density) = 1.06 g/cm<sup>3</sup>  
 $\eta$  (Blood Viscosity) = 0.0471 poise  
 $U$  (Inlet Velocity) = 50.0 cm/sec  
 $L$  (Inlet Diameter) = 2.50 cm

$$Re = \frac{\rho UL}{\eta} \approx 2800$$

208610 Tetra Meshes  
 39831 Nodes

Outlet : Pressure Prescribed (P=0)

optimal approach for setting algorithms

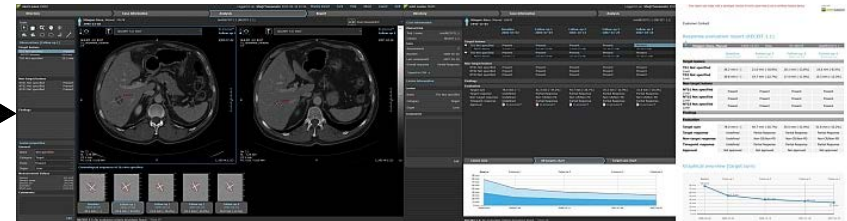


# Image based solution for persistent case in clinical trial

Novelty LISIT Inc. Business

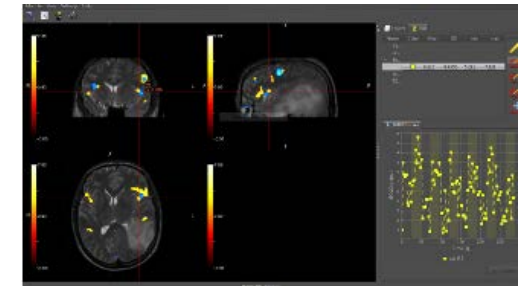
mint Lesion developed by Mint Medical (Germany)

malignant neoplasm (Oncology)  
1) Clinical trail of anti-cancer drug  
2) RECIST



cranial nerve disease  
1) cerebral infarction  
2) Alzheimer disease

BrainMagix,  
imagilyts,  
Brussels, Belgium

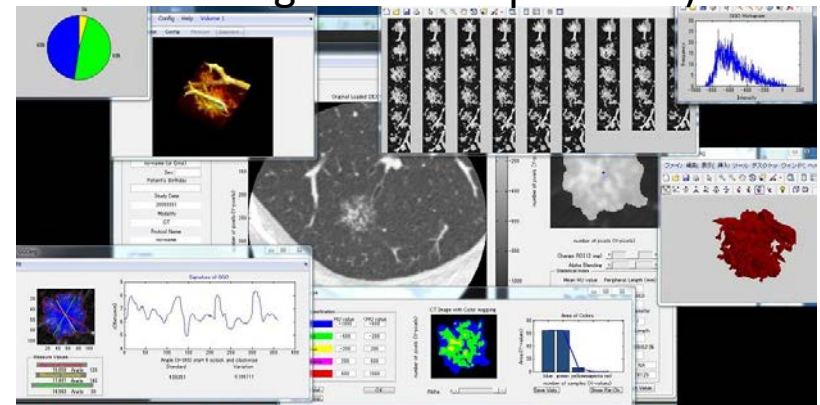


Bone disease  
1) Osteoporosis  
2) (RA:Rheumatoid Arthritis)

cardiovascular disease  
1) Measure angiographic stenosis  
2) Cardiac Function (4D)

pulmonary [pulmonic] disease  
1) interstitial lung disease  
2) COPD, asthma, emphysema

WatchinGGO (Lung cancer imaging  
biomarker original developed LISIT)





# **LISIT, Co., Ltd.**

## *LifeSave Imaging Technologies*

*We believe that the clinical –based medical imaging technology save a life and open the doorway to a bright future for the people all over the world*

**Thank you**

